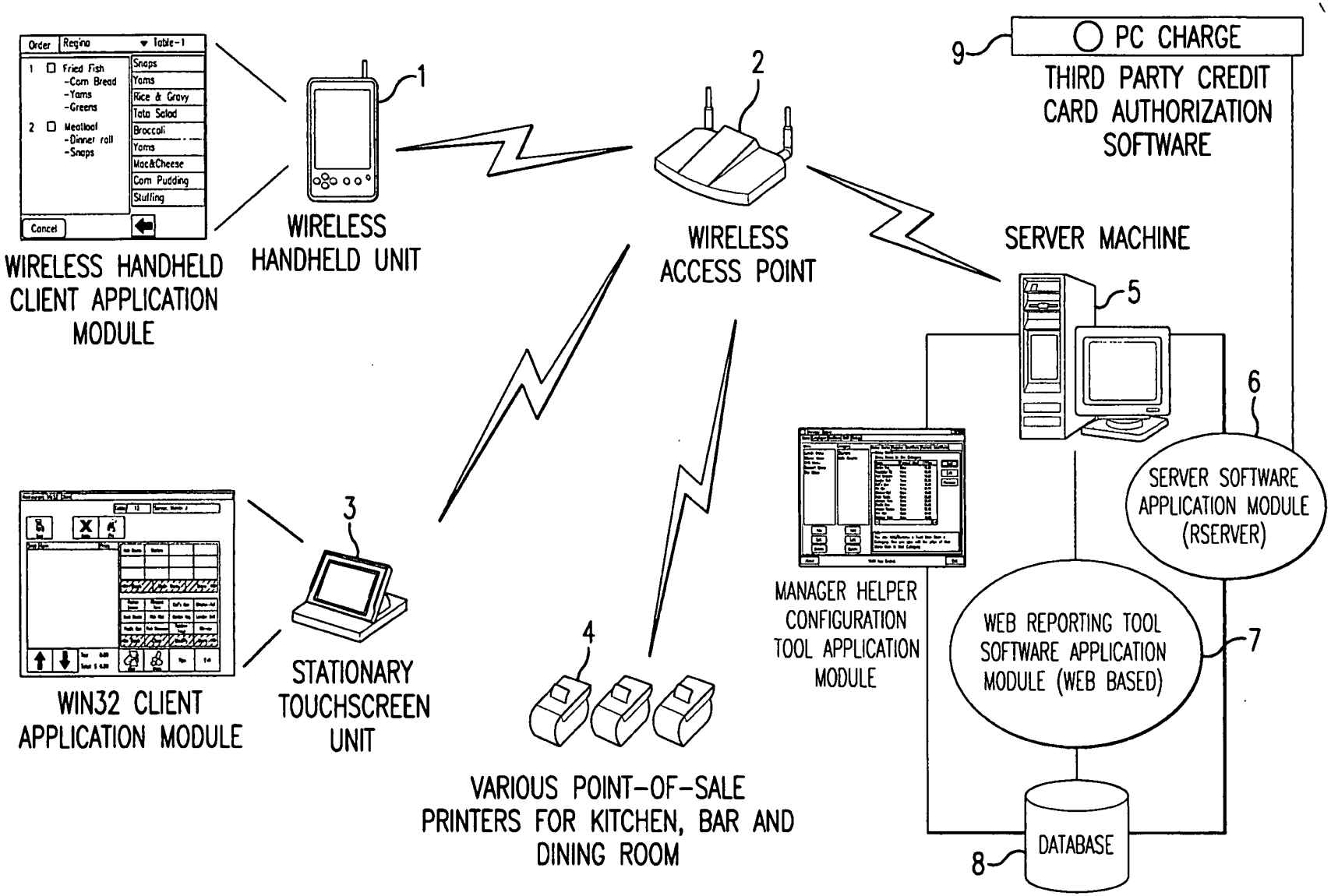
Order
Regina
Table-1
1 Fried Fish
-Corn Bread
-Yams
-Greens
2 Meatloaf
-Dinner roll
-Snaps
Snaps
Yams
Rice & Gravy
Tata Salad
Broccoli
Yams
Mac&Cheese
Corn Pudding
Stuffing
Cancel
WIRELESS HANDHELD CLIENT APPLICATION MODULE
1
WIRELESS HANDHELD UNIT
2
WIRELESS ACCESS POINT
9
PC CHARGE
THIRD PARTY CREDIT CARD AUTHORIZATION SOFTWARE
SERVER MACHINE
5
6
SERVER SOFTWARE APPLICATION MODULE (RSERVER)
MANAGER HELPER CONFIGURATION TOOL APPLICATION MODULE
WEB REPORTING TOOL SOFTWARE APPLICATION MODULE (WEB BASED)
7
3
WIN32 CLIENT APPLICATION MODULE
STATIONARY TOUCHSCREEN UNIT
4
VARIOUS POINT-OF-SALE PRINTERS FOR KITCHEN, BAR AND DINING ROOM
8
DATABASE

FIG.1

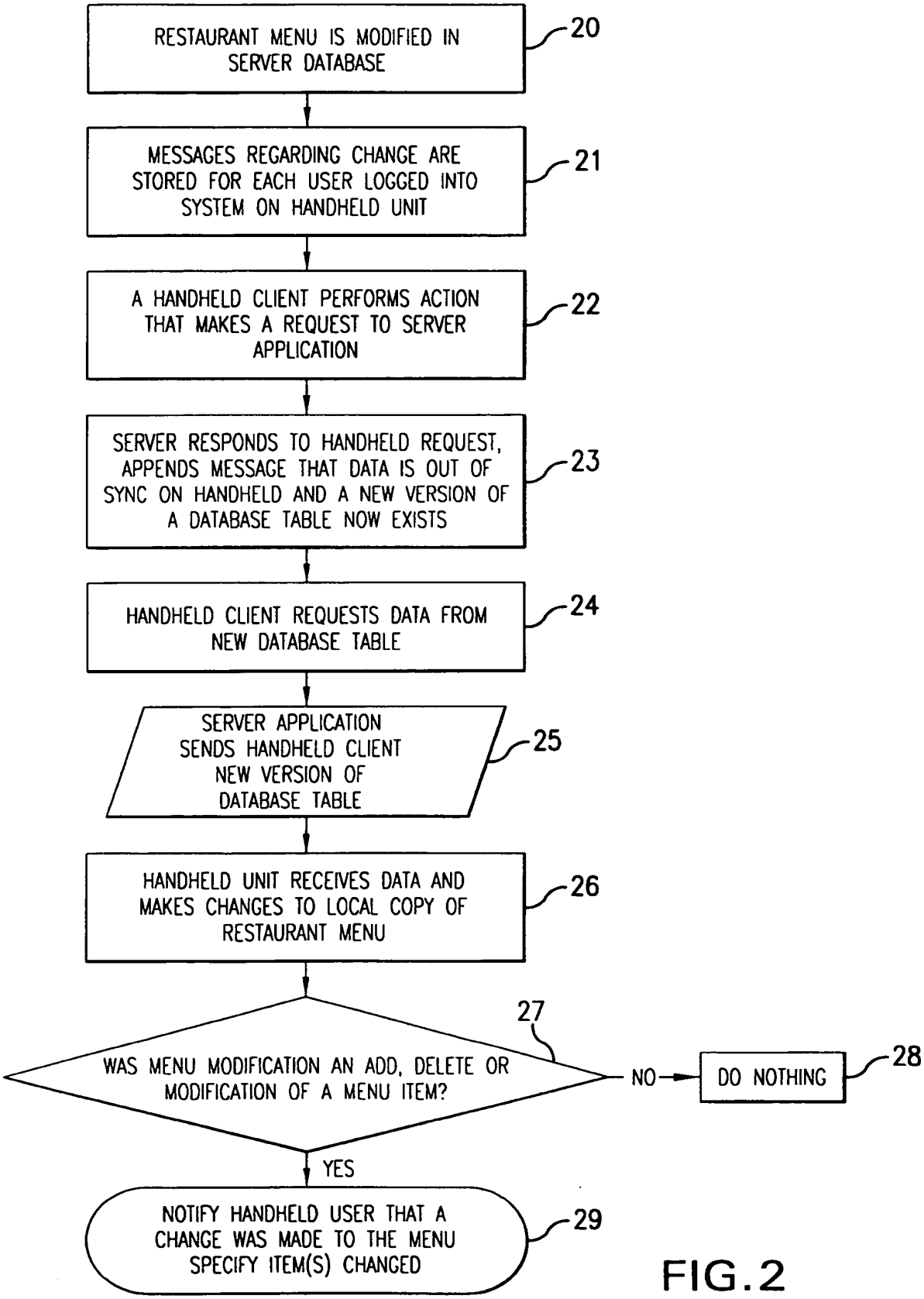
RESTAURANT MENU IS MODIFIED IN SERVER DATABASE
20
MESSAGES REGARDING CHANGE ARE STORED FOR EACH USER LOGGED INTO SYSTEM ON HANDHELD UNIT
21
A HANDHELD CLIENT PERFORMS ACTION THAT MAKES A REQUEST TO SERVER APPLICATION
22
SERVER RESPONDS TO HANDHELD REQUEST, APPENDS MESSAGE THAT DATA IS OUT OF SYNC ON HANDHELD AND A NEW VERSION OF A DATABASE TABLE NOW EXISTS
23
HANDHELD CLIENT REQUESTS DATA FROM NEW DATABASE TABLE
24
SERVER APPLICATION SENDS HANDHELD CLIENT NEW VERSION OF DATABASE TABLE
25
HANDHELD UNIT RECEIVES DATA AND MAKES CHANGES TO LOCAL COPY OF RESTAURANT MENU
26
27
WAS MENU MODIFICATION AN ADD, DELETE OR MODIFICATION OF A MENU ITEM?
NO
DO NOTHING
28
YES
NOTIFY HANDHELD USER THAT A CHANGE WAS MADE TO THE MENU SPECIFY ITEM(S) CHANGED
29

FIG.2

ITEM(S) TEMPORARILY DISABLED/ENABLED

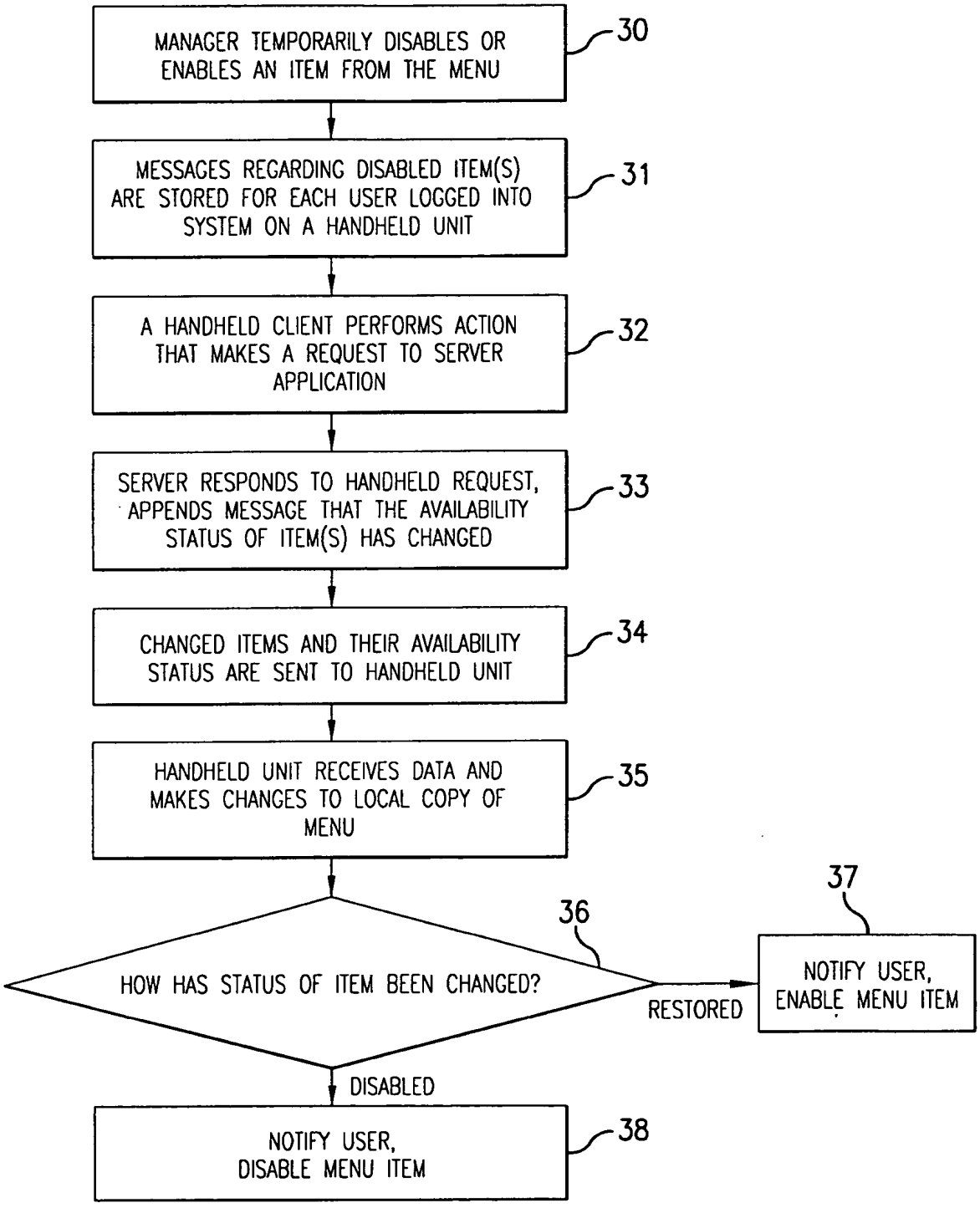

FIG.3

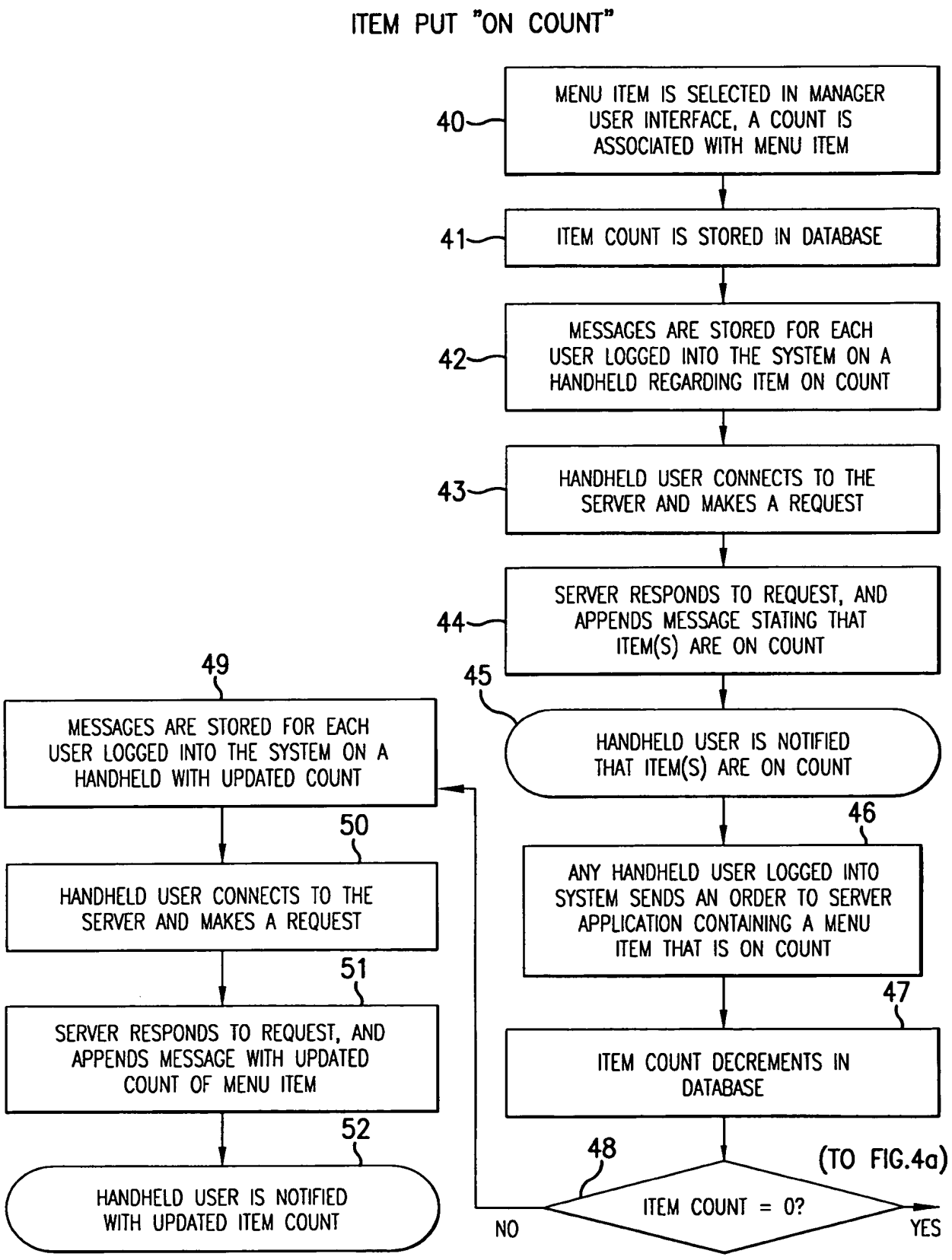
ITEM PUT "ON COUNT"
40
MENU ITEM IS SELECTED IN MANAGER USER INTERFACE, A COUNT IS ASSOCIATED WITH MENU ITEM
41
ITEM COUNT IS STORED IN DATABASE
42
MESSAGES ARE STORED FOR EACH USER LOGGED INTO THE SYSTEM ON A HANDHELD REGARDING ITEM ON COUNT
43
HANDHELD USER CONNECTS TO THE SERVER AND MAKES A REQUEST
44
SERVER RESPONDS TO REQUEST, AND APPENDS MESSAGE STATING THAT ITEM(S) ARE ON COUNT
45
HANDHELD USER IS NOTIFIED THAT ITEM(S) ARE ON COUNT
46
ANY HANDHELD USER LOGGED INTO SYSTEM SENDS AN ORDER TO SERVER APPLICATION CONTAINING A MENU ITEM THAT IS ON COUNT
47
ITEM COUNT DECREMENTS IN DATABASE
48
ITEM COUNT = 0?
NO
YES
(TO FIG.4a)
49
MESSAGES ARE STORED FOR EACH USER LOGGED INTO THE SYSTEM ON A HANDHELD WITH UPDATED COUNT
50
HANDHELD USER CONNECTS TO THE SERVER AND MAKES A REQUEST
51
SERVER RESPONDS TO REQUEST, AND APPENDS MESSAGE WITH UPDATED COUNT OF MENU ITEM
52
HANDHELD USER IS NOTIFIED WITH UPDATED ITEM COUNT

FIG.4

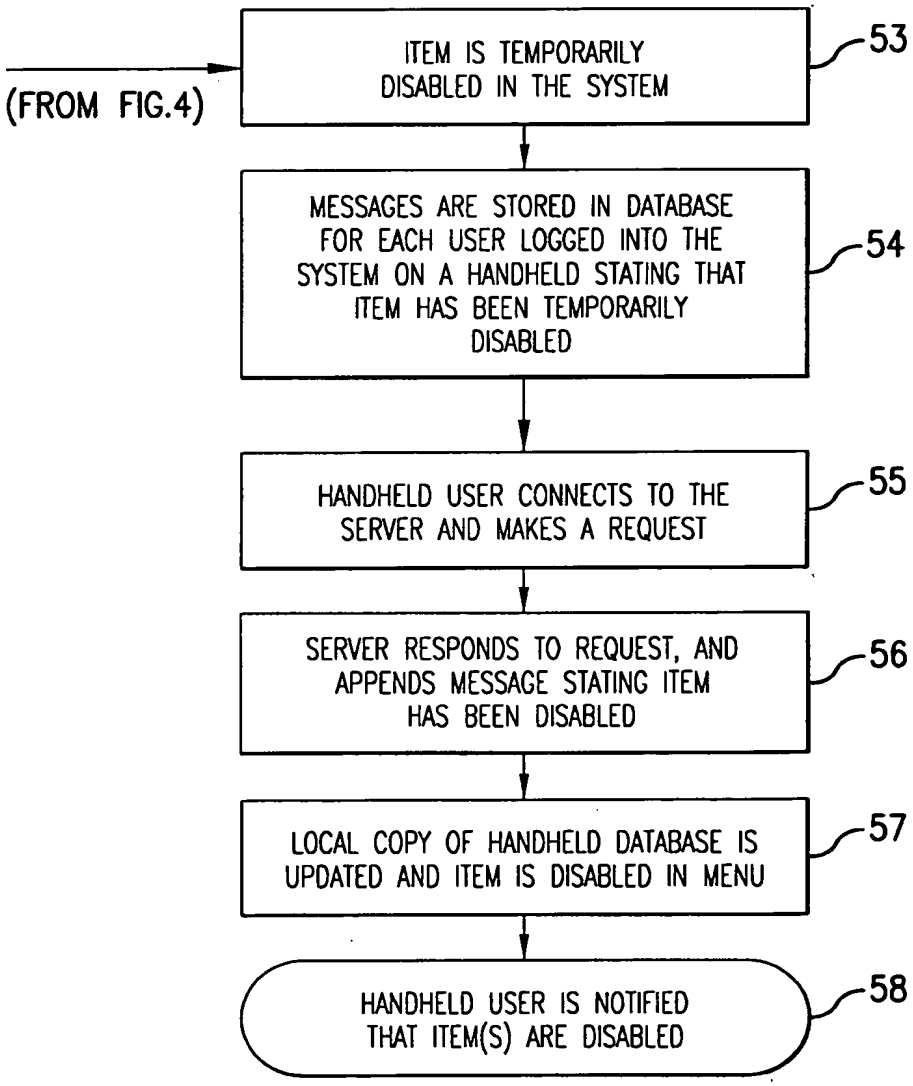
(FROM FIG.4)
ITEM IS TEMPORARILY DISABLED IN THE SYSTEM
53
MESSAGES ARE STORED IN DATABASE FOR EACH USER LOGGED INTO THE SYSTEM ON A HANDHELD STATING THAT ITEM HAS BEEN TEMPORARILY DISABLED
54
HANDHELD USER CONNECTS TO THE SERVER AND MAKES A REQUEST
55
SERVER RESPONDS TO REQUEST, AND APPENDS MESSAGE STATING ITEM HAS BEEN DISABLED
56
LOCAL COPY OF HANDHELD DATABASE IS UPDATED AND ITEM IS DISABLED IN MENU
57
HANDHELD USER IS NOTIFIED THAT ITEM(S) ARE DISABLED
58

FIG.4a

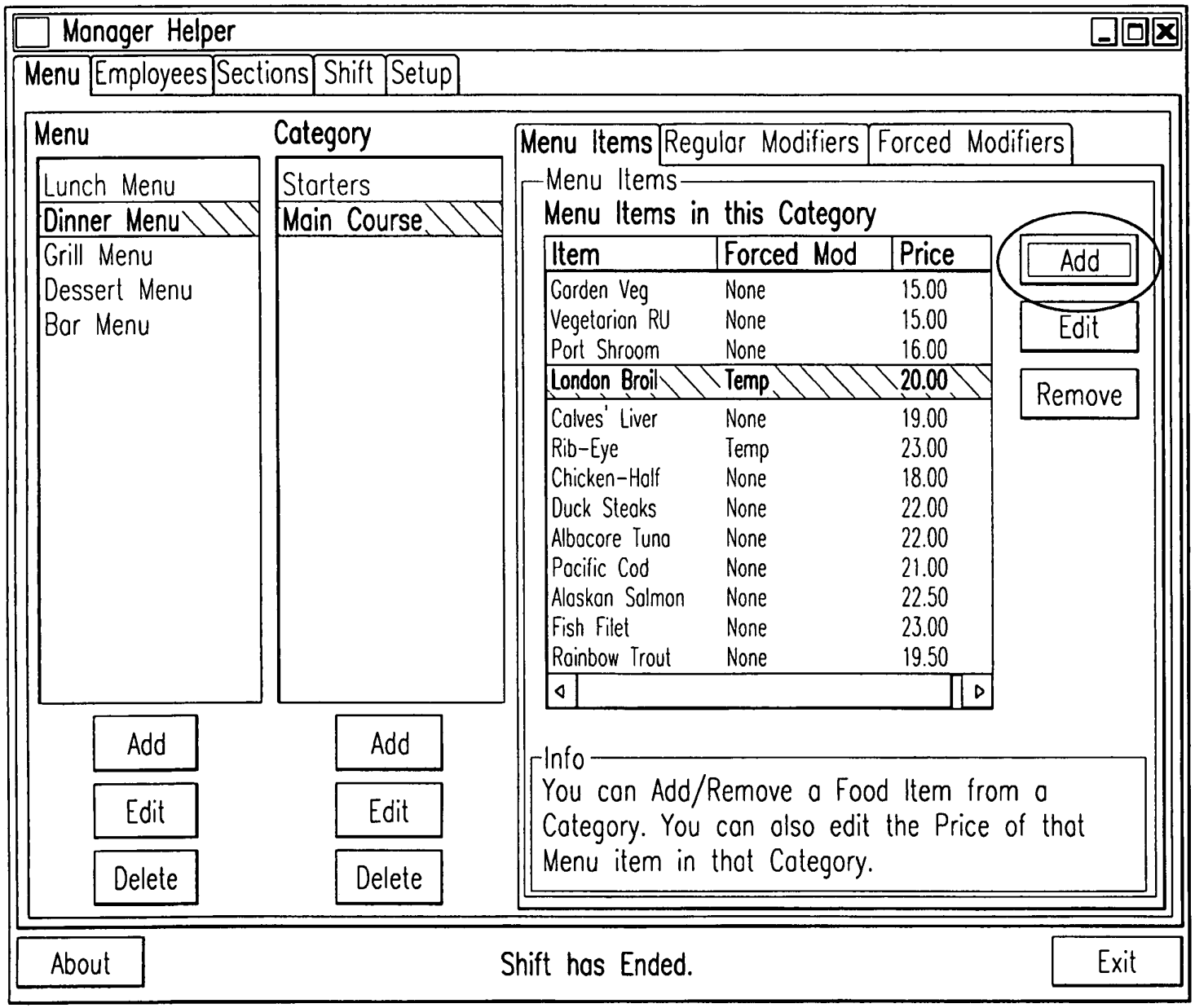
Manager Helper
Menu
Employees
Sections
Shift
Setup
Menu
Category
Lunch Menu
Dinner Menu
Grill Menu
Dessert Menu
Bar Menu
Starters
Main Course
Add
Edit
Delete
Add
Edit
Delete
Menu Items
Regular Modifiers
Forced Modifiers
Menu Items
Menu Items in this Category
Item
Forced Mod
Price
Garden Veg None 15.00
Vegetarian RU None 15.00
Port Shroom None 16.00
London Broil Temp 20.00
Calves' Liver None 19.00
Rib-Eye Temp 23.00
Chicken-Half None 18.00
Duck Steaks None 22.00
Albacore Tuna None 22.00
Pacific Cod None 21.00
Alaskan Salmon None 22.50
Fish Filet None 23.00
Rainbow Trout None 19.50
Add
Edit
Remove
Info
You can Add/Remove a Food Item from a Category. You can also edit the Price of that Menu item in that Category.
About
Shift has Ended.
Exit

FIG.5

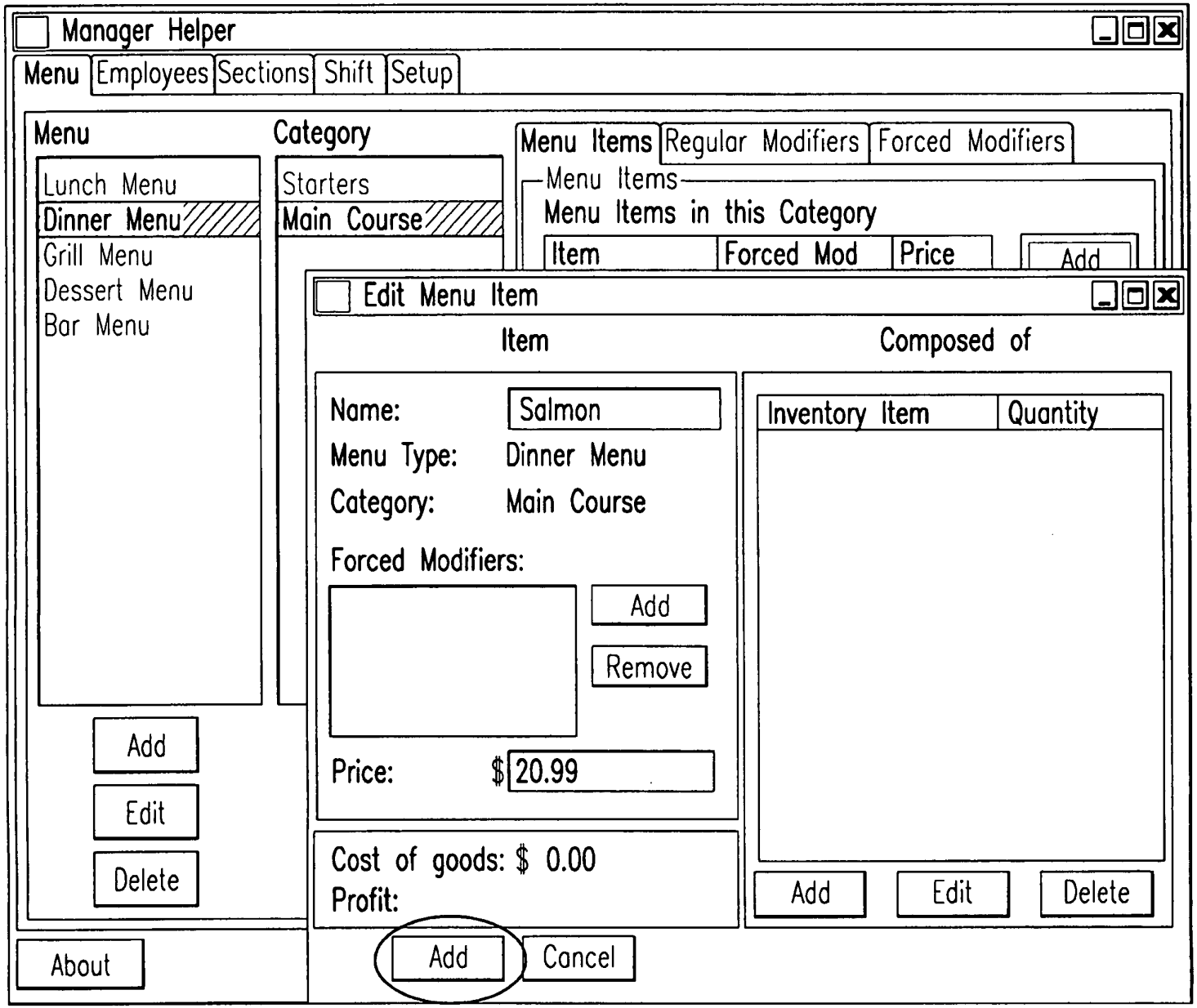
Manager Helper
Menu
Employees
Sections
Shift
Setup
Menu
Lunch Menu
Dinner Menu
Grill Menu
Dessert Menu
Bar Menu
Add
Edit
Delete
Category
Starters
Main Course
Menu Items
Regular Modifiers
Forced Modifiers
Menu Items
Menu Items in this Category
Item
Forced Mod
Price
Add
Edit Menu Item
Item
Composed of
Name:
Salmon
Menu Type:
Dinner Menu
Category:
Main Course
Forced Modifiers:
Add
Remove
Price:
$
20.99
Cost of goods: $ 0.00
Profit:
Inventory Item
Quantity
Add
Edit
Delete
About
Add
Cancel

FIG.6

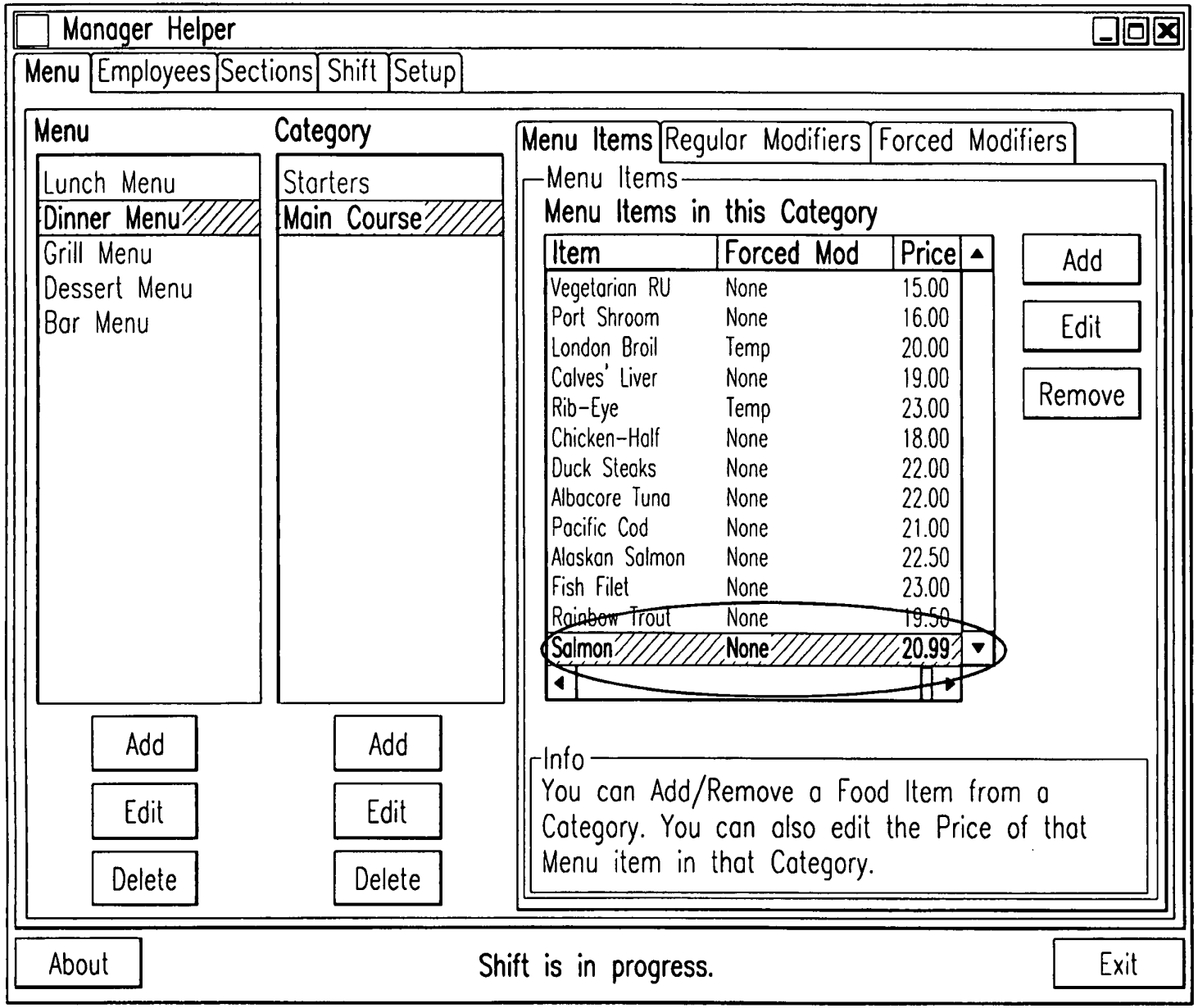
Manager Helper
Menu
Employees
Sections
Shift
Setup
Menu
Lunch Menu
Dinner Menu
Grill Menu
Dessert Menu
Bar Menu
Add
Edit
Delete
Category
Starters
Main Course
Add
Edit
Delete
Menu Items
Regular Modifiers
Forced Modifiers
Menu Items
Menu Items in this Category
Item
Forced Mod
Price
Vegetarian RU None 15.00
Port Shroom None 16.00
London Broil Temp 20.00
Calves' Liver None 19.00
Rib-Eye Temp 23.00
Chicken-Half None 18.00
Duck Steaks None 22.00
Albacore Tuna None 22.00
Pacific Cod None 21.00
Alaskan Salmon None 22.50
Fish Filet None 23.00
Rainbow Trout None 19.50
Salmon None 20.99
Add
Edit
Remove
Info
You can Add/Remove a Food Item from a Category. You can also edit the Price of that Menu item in that Category.
About
Shift is in progress.
Exit

FIG.7

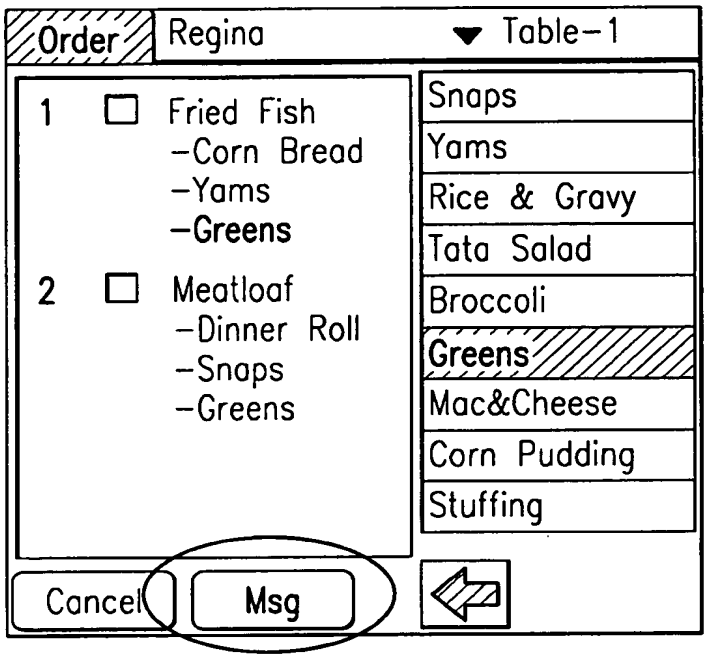
Order
Regina
Table-1
1
Fried Fish
-Corn Bread
-Yams
-Greens
2
Meatloaf
-Dinner Roll
-Snaps
-Greens
Snaps
Yams
Rice & Gravy
Tata Salad
Broccoli
Greens
Mac&Cheese
Corn Pudding
Stuffing
Cancel
Msg

FIG.8

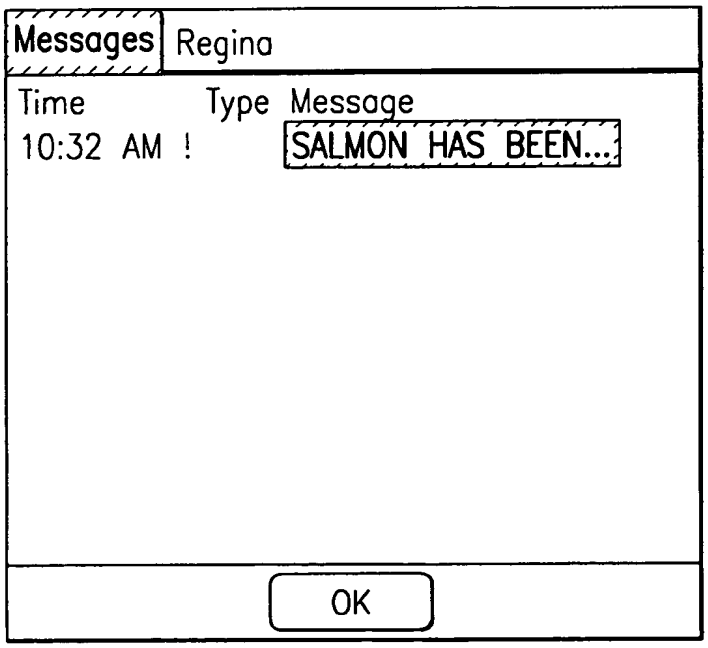
Messages
Regina
Time
Type
Message
10:32 AM
!
SALMON HAS BEEN...
OK

FIG.9

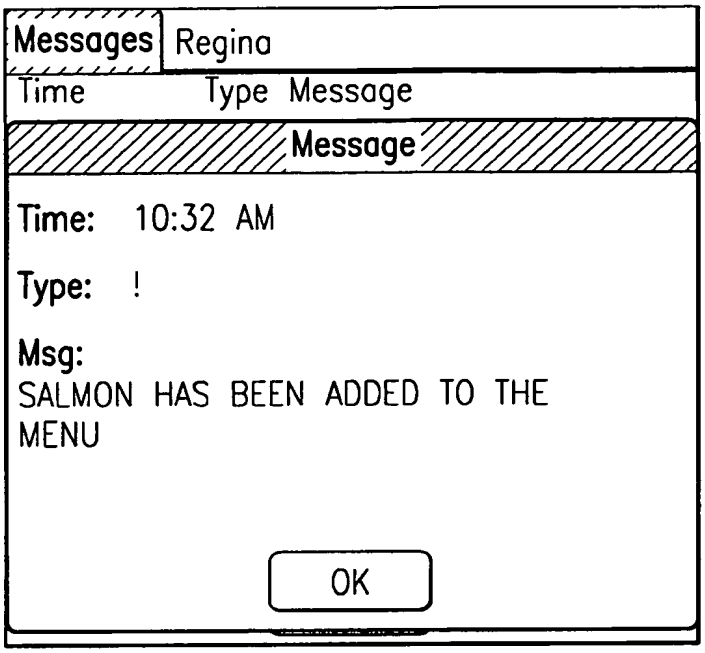
Messages
Regina
Time
Type
Message
Message
Time: 10:32 AM
Type: !
Msg:
SALMON HAS BEEN ADDED TO THE MENU
OK

FIG.10

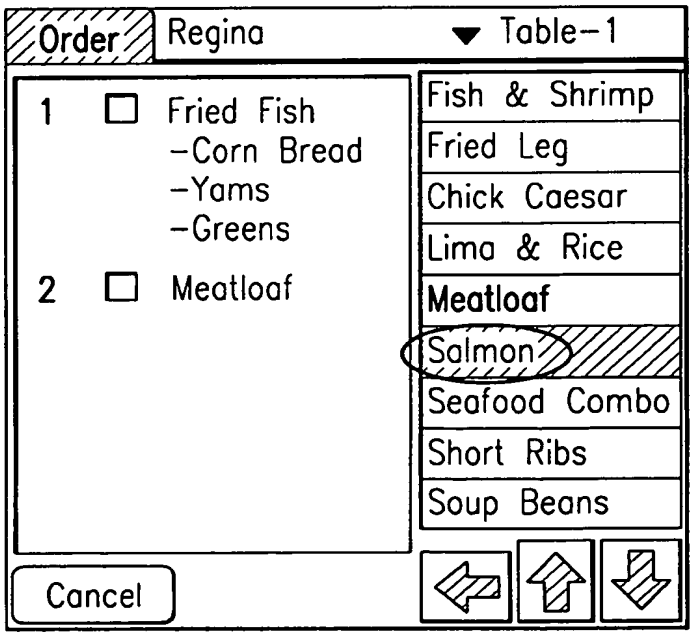
Order
Regina
Table-1
1 Fried Fish
-Corn Bread
-Yams
-Greens
2 Meatloaf
Fish & Shrimp
Fried Leg
Chick Caesar
Lima & Rice
Meatloaf
Salmon
Seafood Combo
Short Ribs
Soup Beans
Cancel

FIG.11

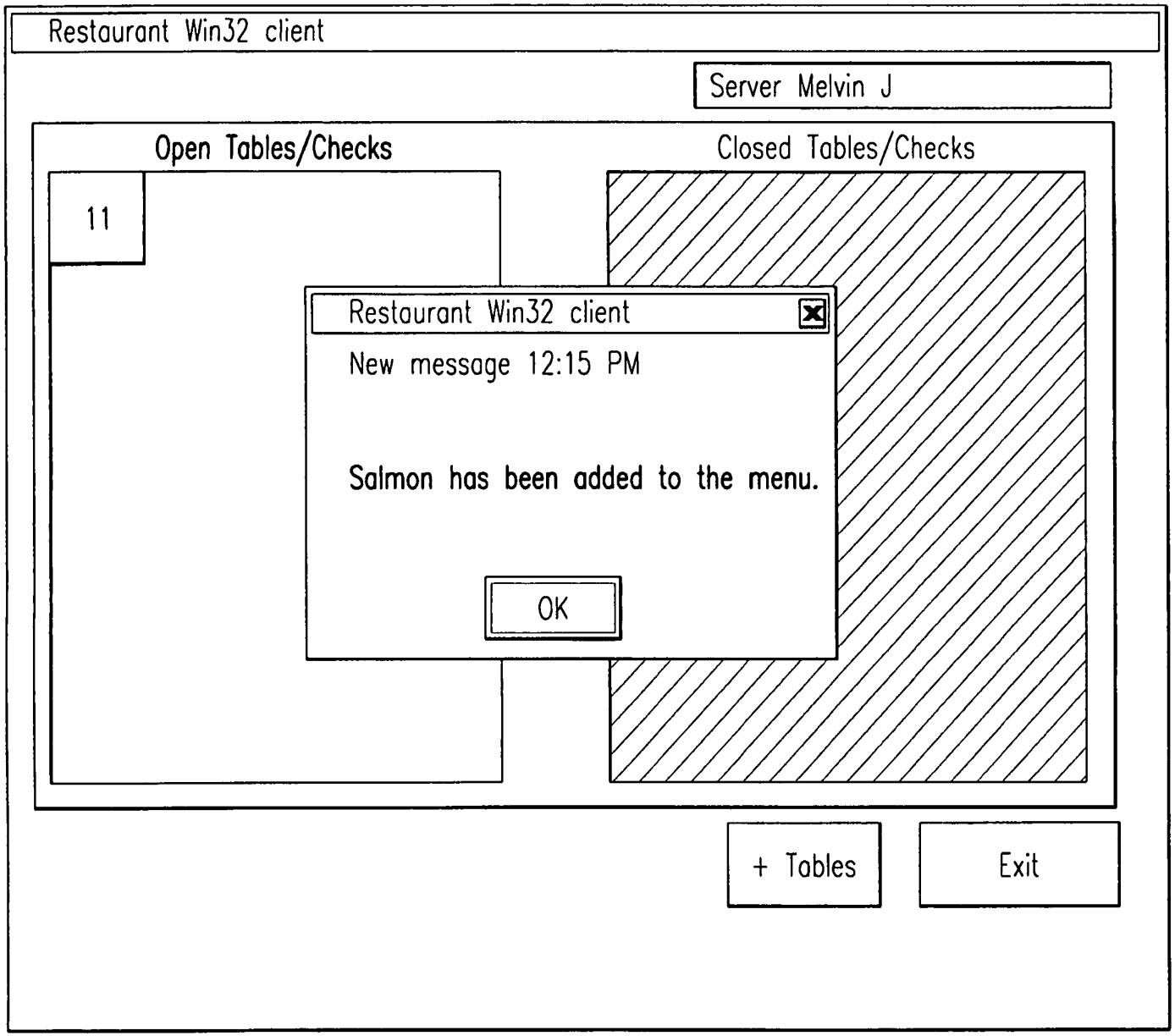
Restaurant Win32 client
Server Melvin J
Open Tables/Checks
Closed Tables/Checks
11
Restaurant Win32 client
New message 12:15 PM
Salmon has been added to the menu.
OK
+ Tables
Exit

FIG.12

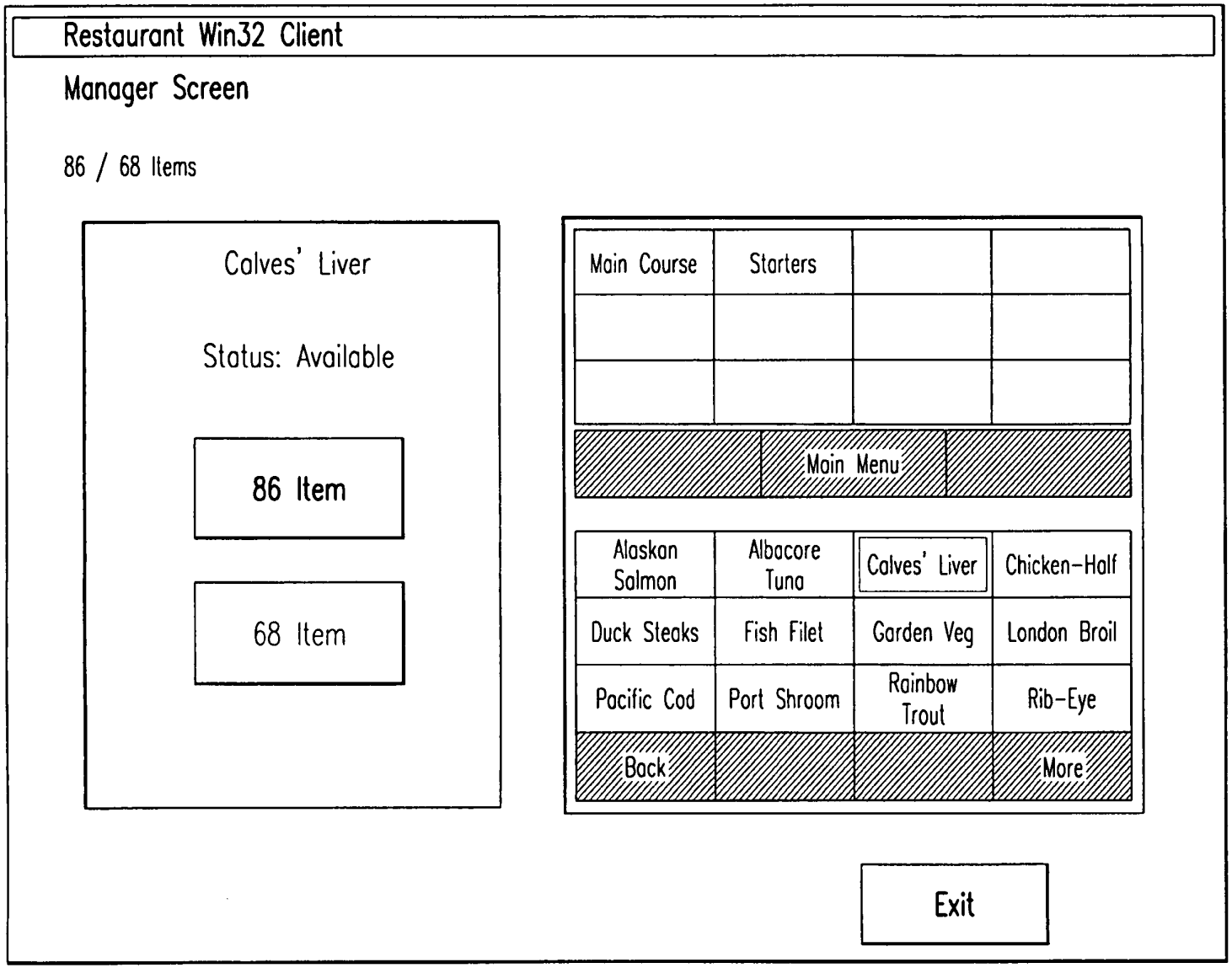
Restaurant Win32 Client
Manager Screen
86 / 68 Items
Calves' Liver
Status: Available
86 Item
68 Item
Main Course
Starters
Main Menu
Alaskan Salmon
Albacore Tuna
Calves' Liver
Chicken-Half
Duck Steaks
Fish Filet
Garden Veg
London Broil
Pacific Cod
Port Shroom
Rainbow Trout
Rib-Eye
Back
More
Exit

FIG.13

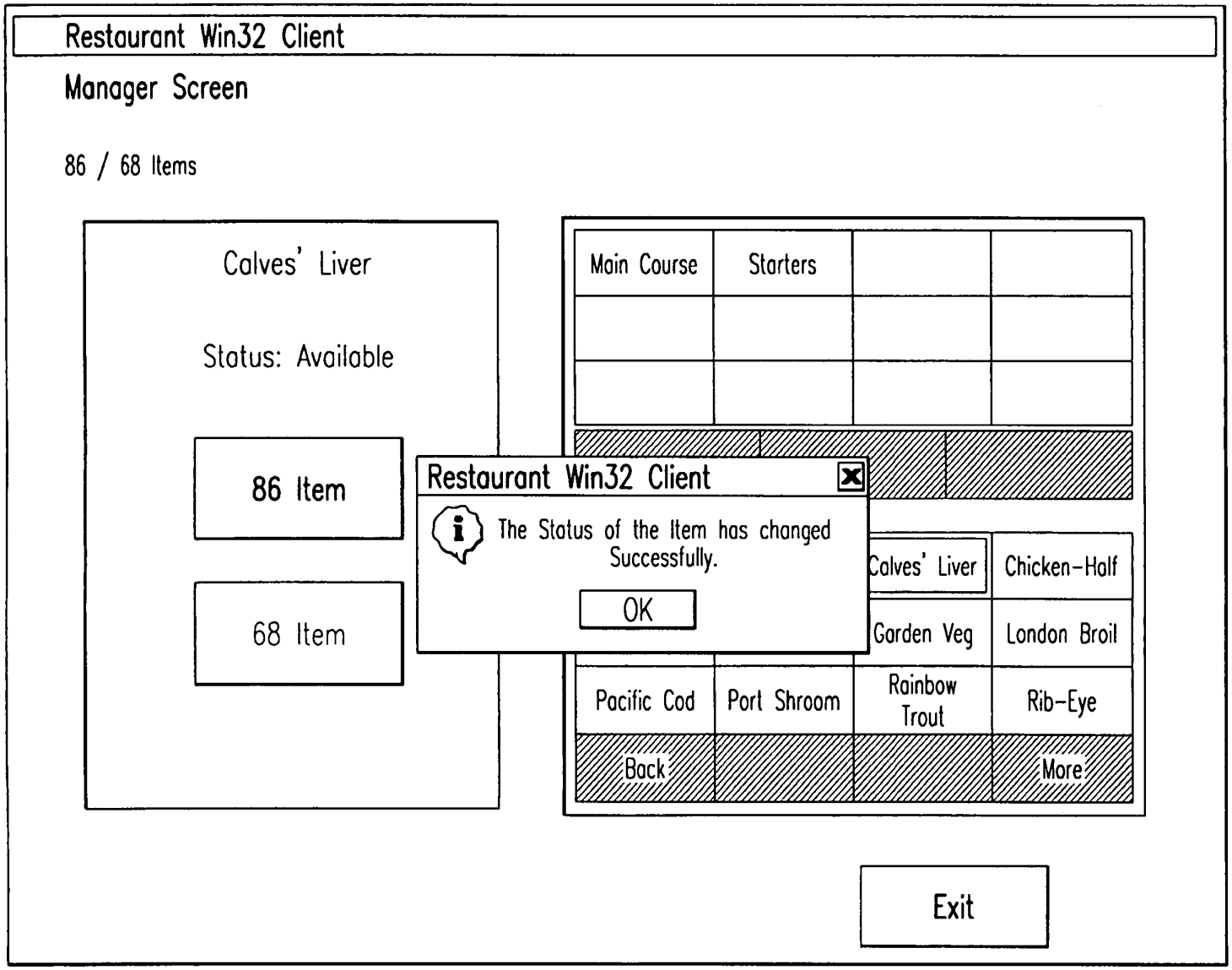
Restaurant Win32 Client
Manager Screen
86 / 68 Items
Calves' Liver
Status: Available
86 Item
68 Item
Main Course
Starters
Restaurant Win32 Client
The Status of the Item has changed Successfully.
OK
Calves' Liver
Chicken-Half
Garden Veg
London Broil
Pacific Cod
Port Shroom
Rainbow Trout
Rib-Eye
Back
More
Exit

FIG.14

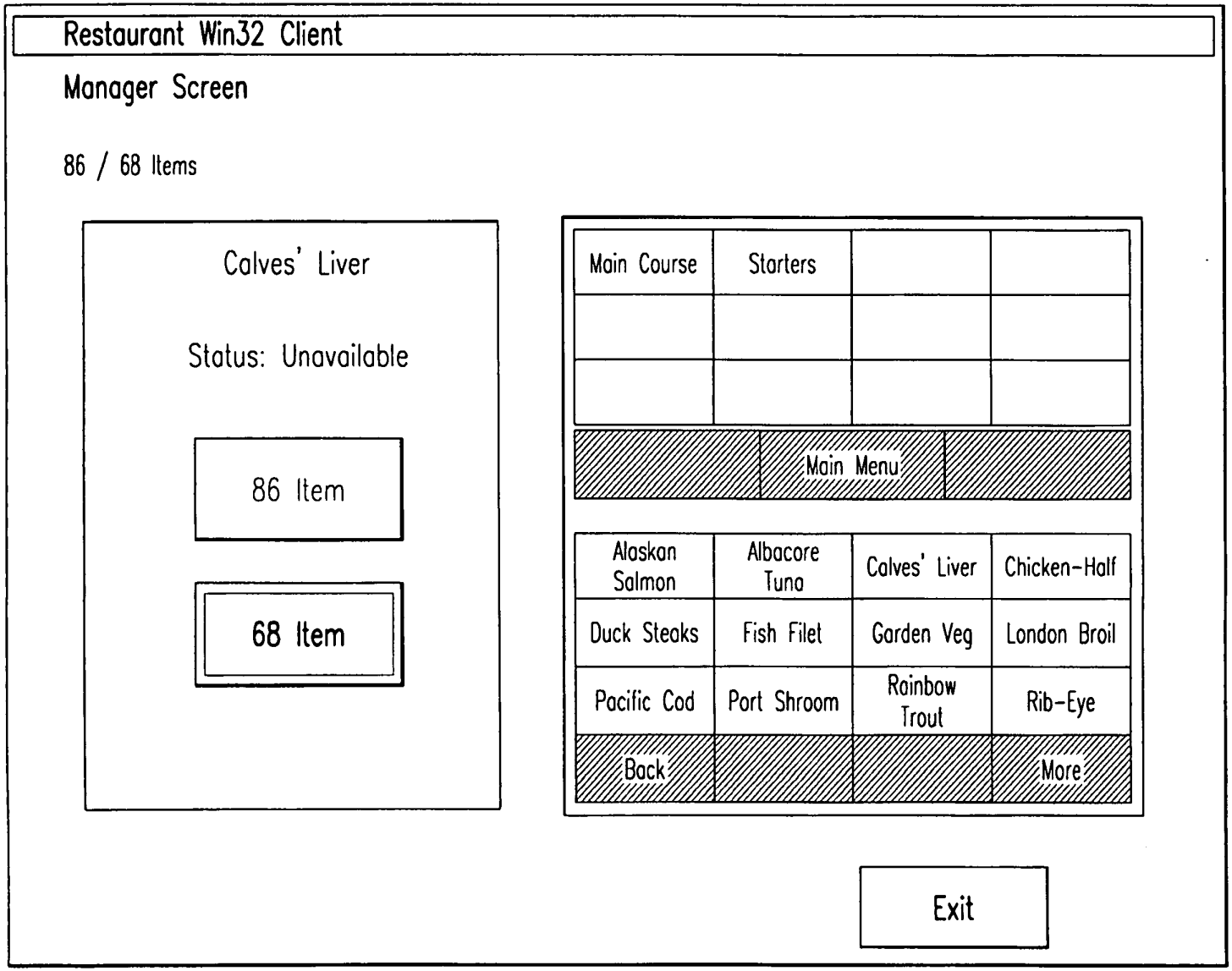
Restaurant Win32 Client
Manager Screen
86 / 68 Items
Calves' Liver
Status: Unavailable
86 Item
68 Item
Main Course
Starters
Main Menu
Alaskan Salmon
Albacore Tuna
Calves' Liver
Chicken-Half
Duck Steaks
Fish Filet
Garden Veg
London Broil
Pacific Cod
Port Shroom
Rainbow Trout
Rib-Eye
Back
More
Exit

FIG.15

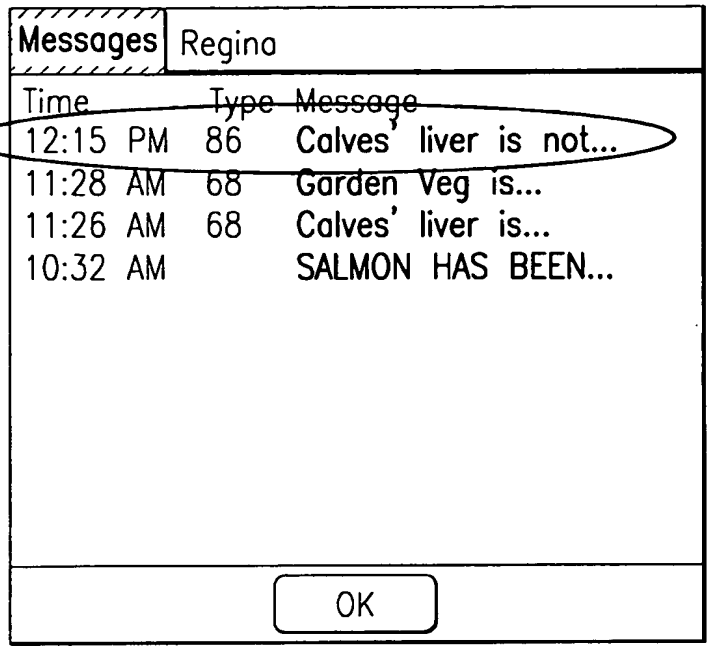
Messages
Regina
Time
Type
Message
12:15 PM
86
Calves' liver is not...
11:28 AM
68
Garden Veg is...
11:26 AM
68
Calves' liver is...
10:32 AM
SALMON HAS BEEN...
OK

FIG.16

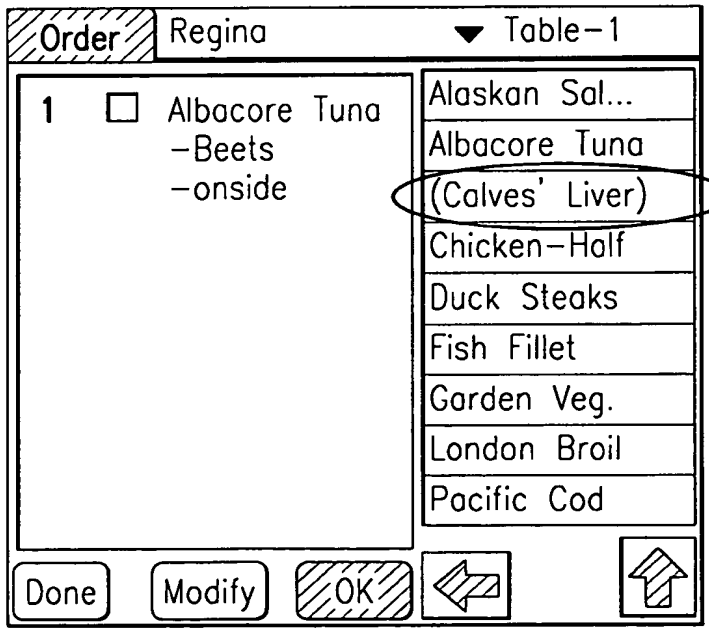
Order
Regina
Table-1
1
Albacore Tuna
-Beets
-onside
Alaskan Sal...
Albacore Tuna
(Calves' Liver)
Chicken-Half
Duck Steaks
Fish Fillet
Garden Veg.
London Broil
Pacific Cod
Done
Modify
OK

FIG.17

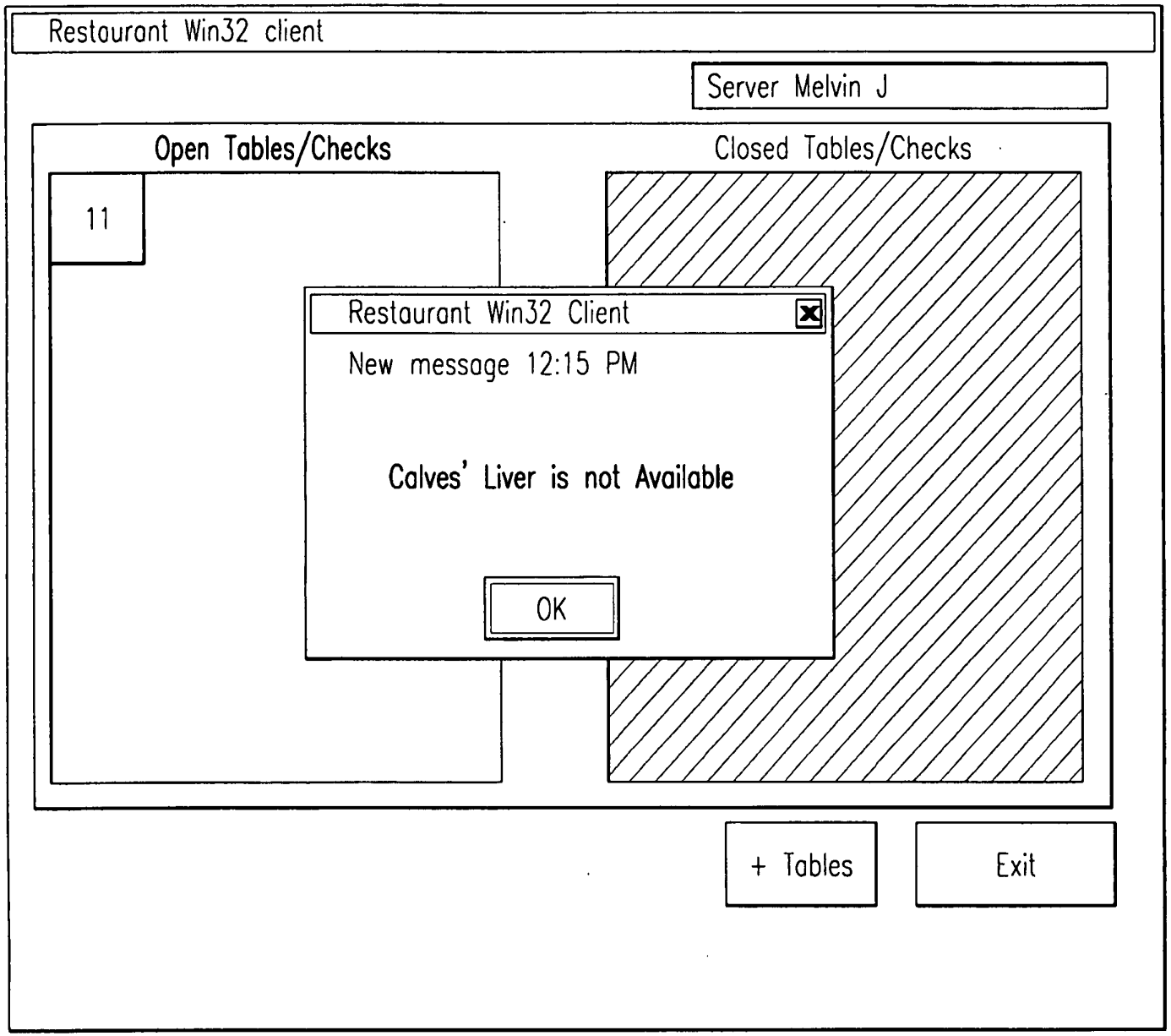
Restaurant Win32 client
Server Melvin J
Open Tables/Checks
Closed Tables/Checks
11
Restaurant Win32 Client
New message 12:15 PM
Calves' Liver is not Available
OK
+ Tables
Exit

FIG.18

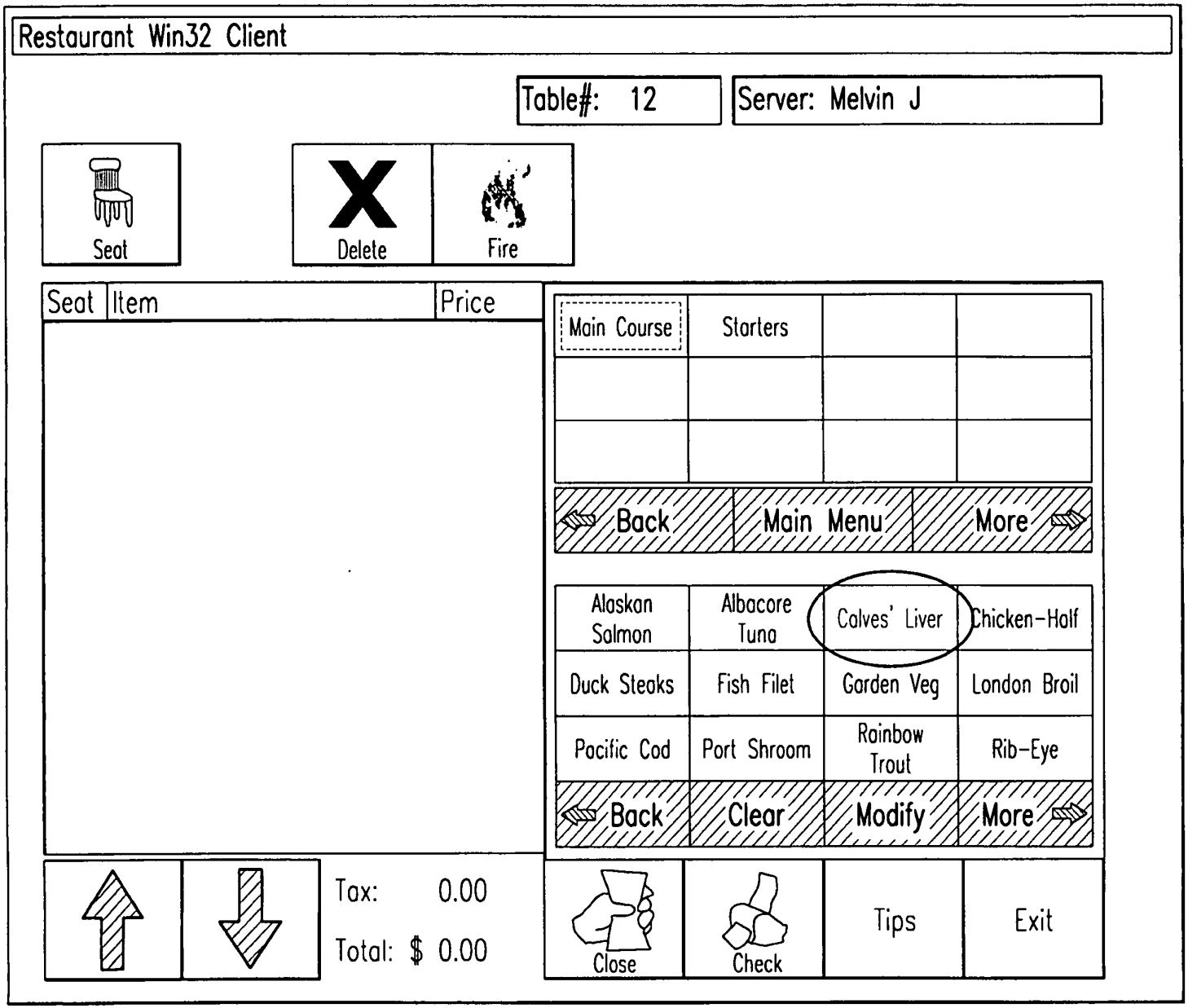
Restaurant Win32 Client
Table#: 12
Server: Melvin J
Seat
Delete
Fire
Seat
Item
Price
Main Course
Starters
Back
Main Menu
More
Alaskan Salmon
Albacore Tuna
Calves' Liver
Chicken-Half
Duck Steaks
Fish Filet
Garden Veg
London Broil
Pacific Cod
Port Shroom
Rainbow Trout
Rib-Eye
Back
Clear
Modify
More
Tax: 0.00
Total: $ 0.00
Close
Check
Tips
Exit

FIG.19

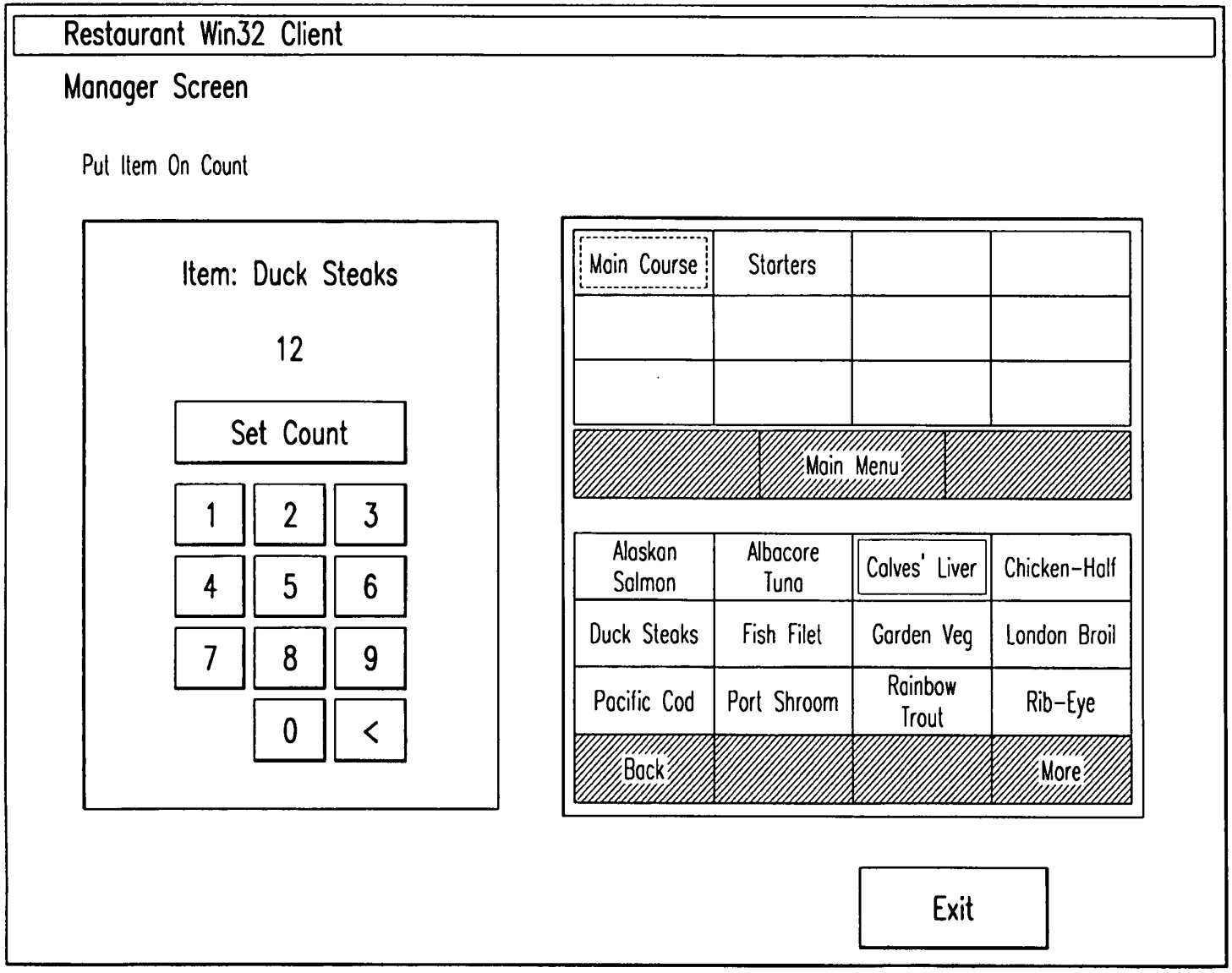
Restaurant Win32 Client
Manager Screen
Put Item On Count
Item: Duck Steaks
12
Set Count
1
2
3
4
5
6
7
8
9
0
<
Main Course
Starters
Main Menu
Alaskan Salmon
Albacore Tuna
Calves' Liver
Chicken-Half
Duck Steaks
Fish Filet
Garden Veg
London Broil
Pacific Cod
Port Shroom
Rainbow Trout
Rib-Eye
Back
More
Exit

FIG.20

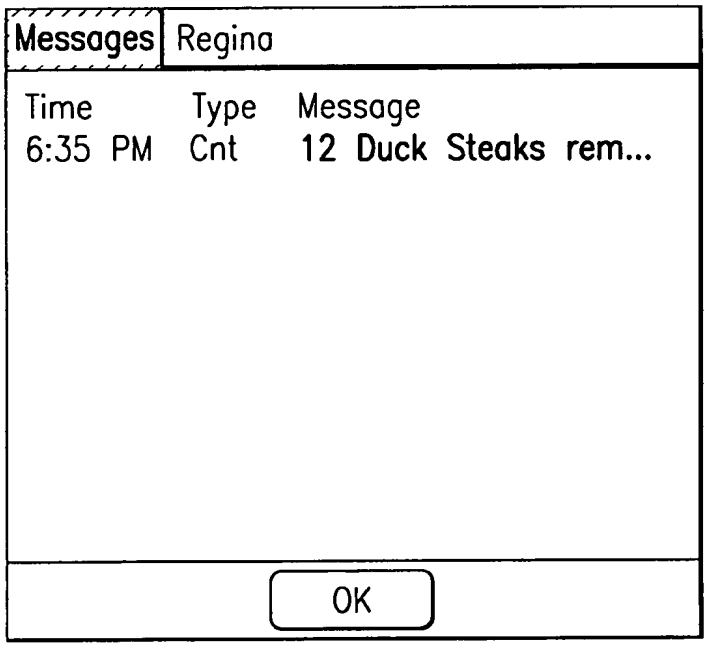
Messages
Regina
Time
Type
Message
6:35 PM
Cnt
12 Duck Steaks rem...
OK

FIG.21

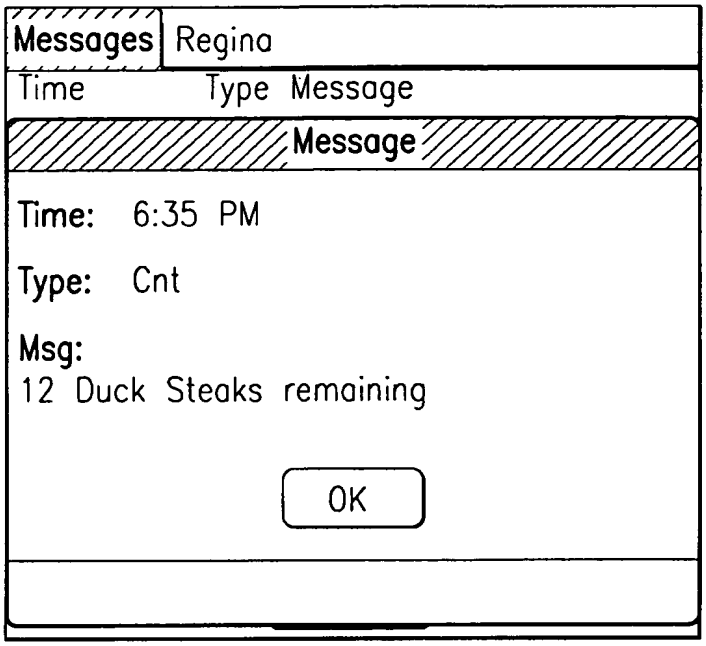
Messages
Regina
Time
Type
Message
Message
Time: 6:35 PM
Type: Cnt
Msg:
12 Duck Steaks remaining
OK

FIG.22

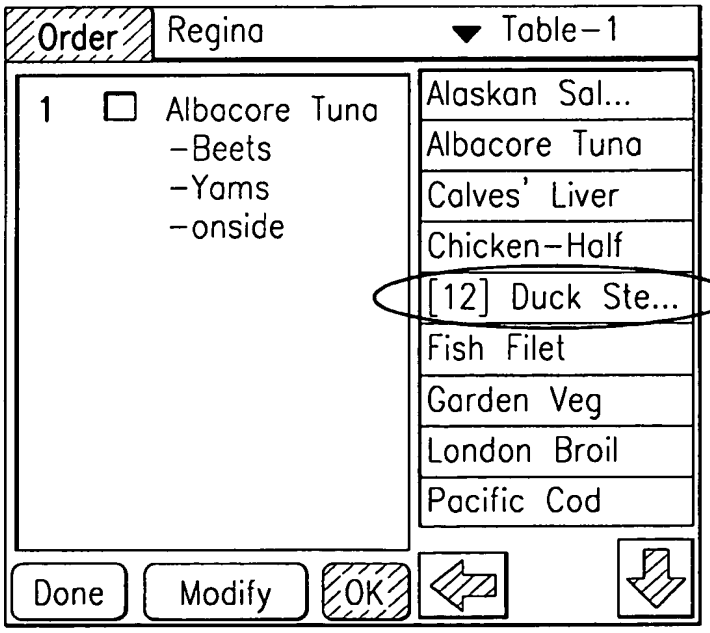
Order
Regina
Table-1
1
Albacore Tuna
-Beets
-Yams
-onside
Alaskan Sal...
Albacore Tuna
Calves' Liver
Chicken-Half
[12] Duck Ste...
Fish Filet
Garden Veg
London Broil
Pacific Cod
Done
Modify
OK

FIG.23

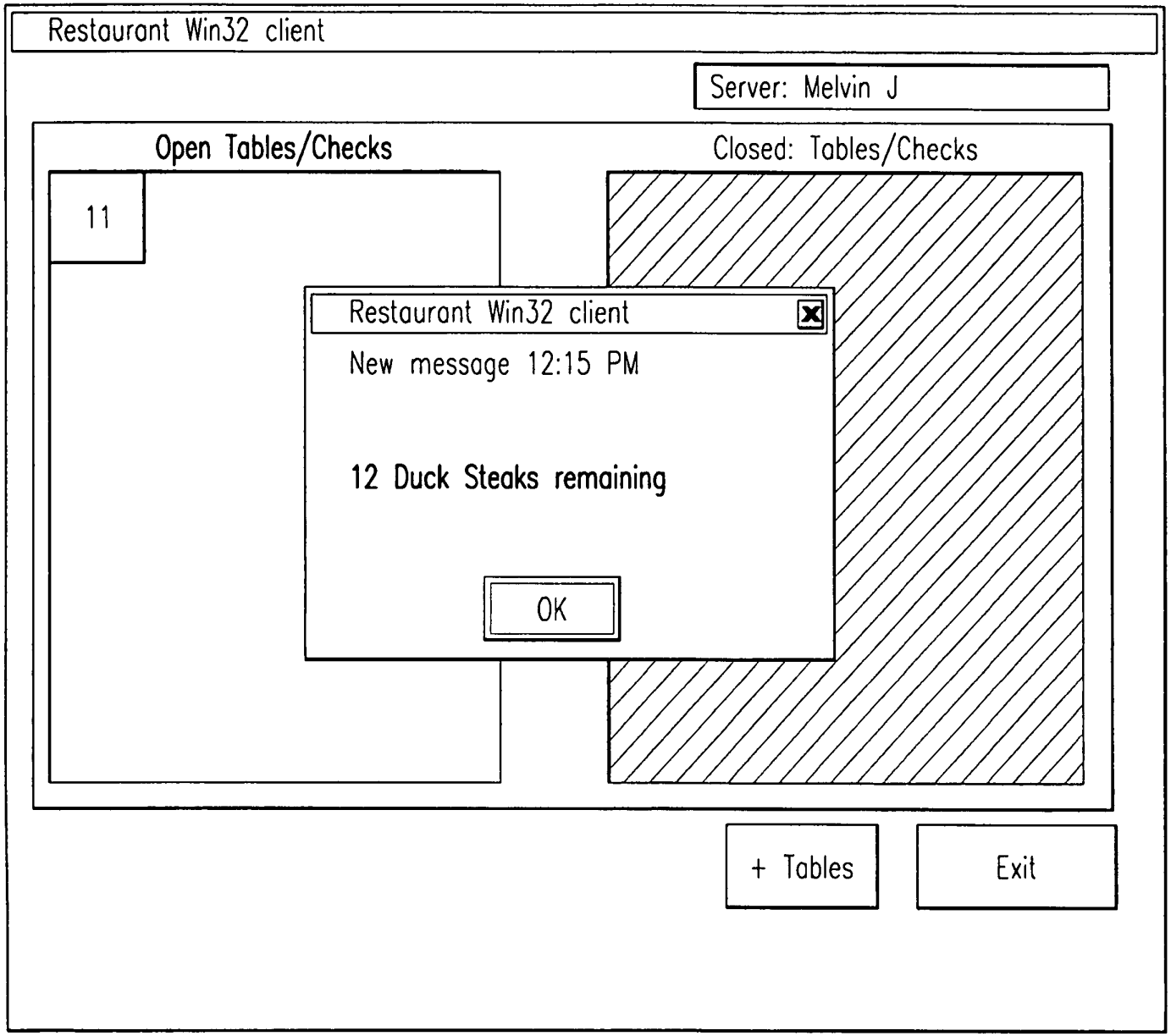
Restaurant Win32 client
Server: Melvin J
Open Tables/Checks
Closed: Tables/Checks
11
Restaurant Win32 client
New message 12:15 PM
12 Duck Steaks remaining
OK
+ Tables
Exit

FIG.24

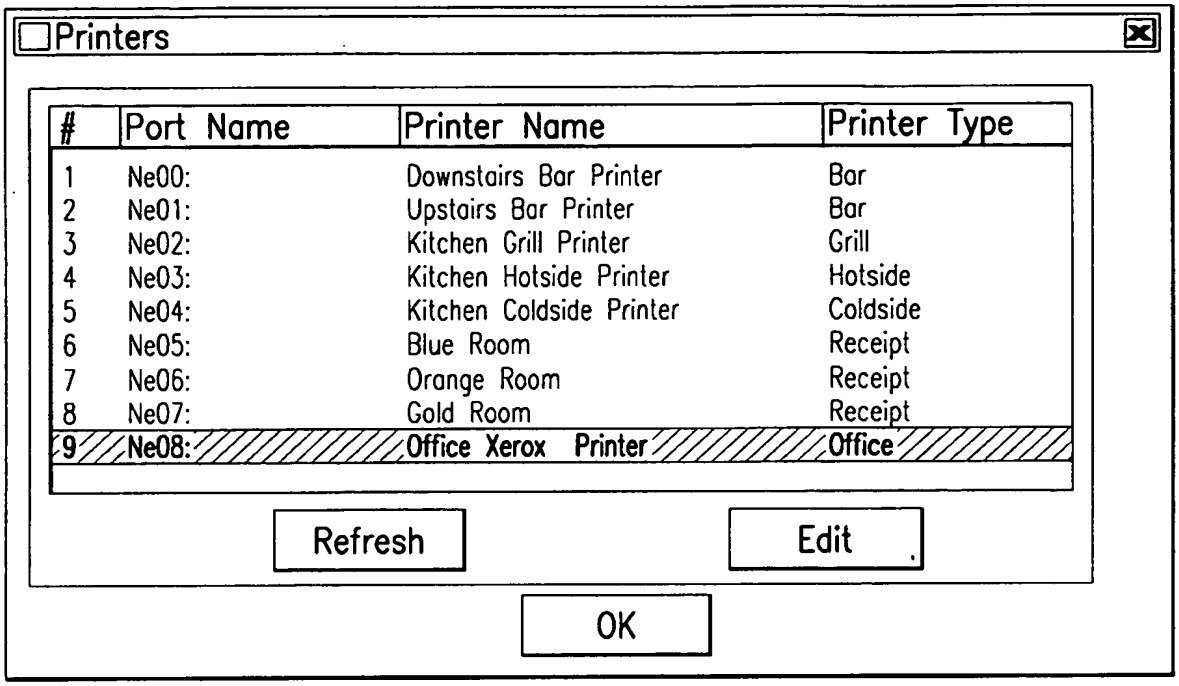
Printers
Port Name Printer Name Printer Type
1 Ne00: Downstairs Bar Printer Bar
2 Ne01: Upstairs Bar Printer Bar
3 Ne02: Kitchen Grill Printer Grill
4 Ne03: Kitchen Hotside Printer Hotside
5 Ne04: Kitchen Coldside Printer Coldside
6 Ne05: Blue Room Receipt
7 Ne06: Orange Room Receipt
8 Ne07: Gold Room Receipt
9 Ne08: Office Xerox Printer Office
Refresh
Edit
OK

FIG.25

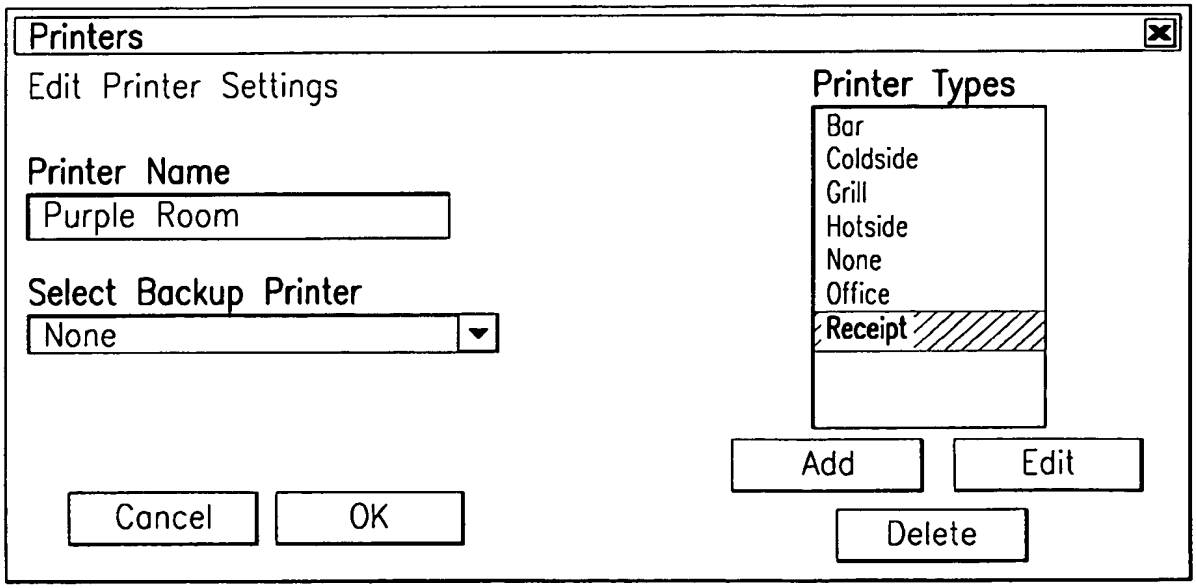
Printers
Edit Printer Settings
Printer Name
Purple Room
Select Backup Printer
None
Cancel
OK
Printer Types
Bar
Coldside
Grill
Hotside
None
Office
Receipt
Add
Edit
Delete

FIG.26

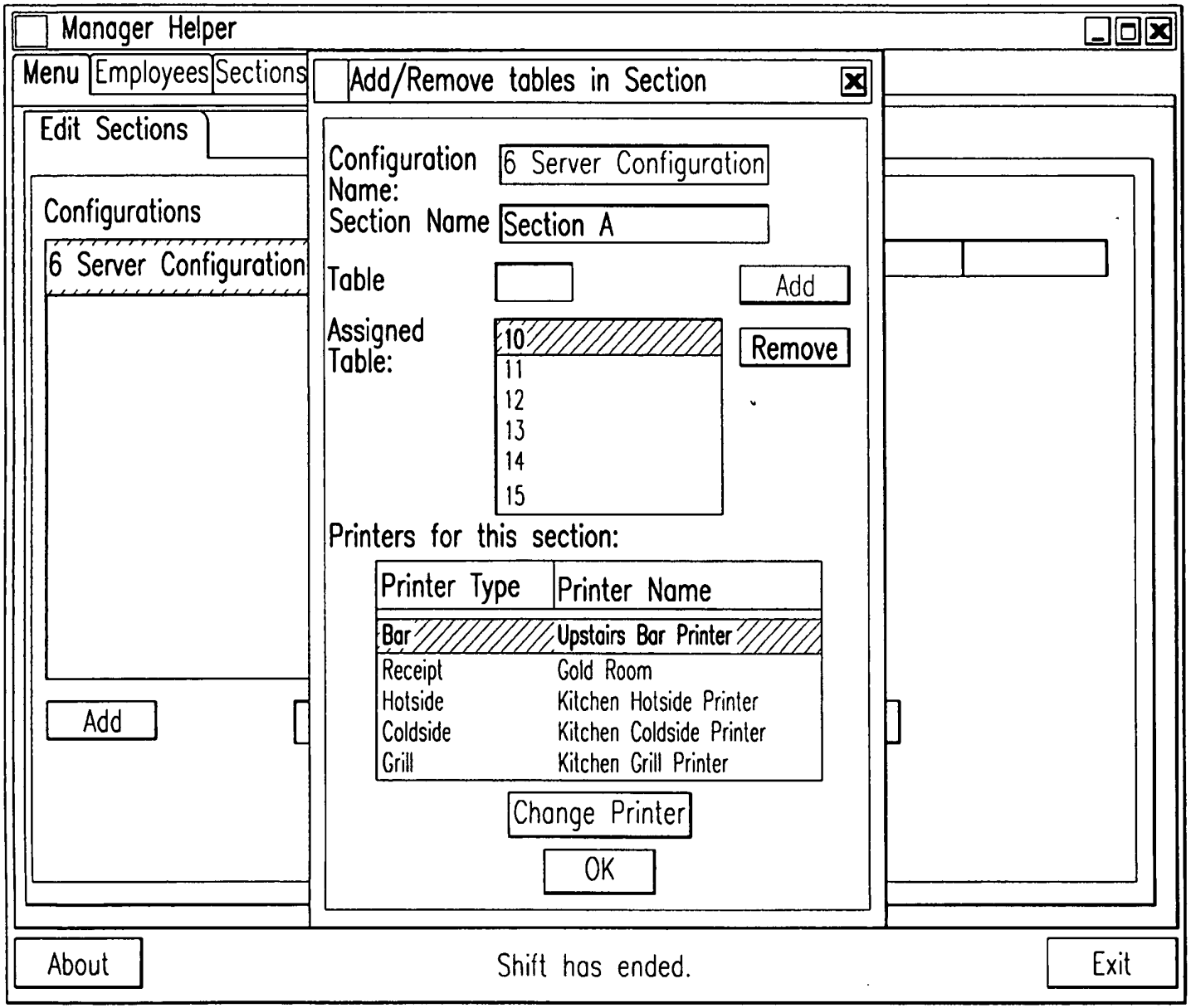
Manager Helper
Menu
Employees
Sections
Edit Sections
Configurations
6 Server Configuration
Add
Add/Remove tables in Section
Configuration Name:
6 Server Configuration
Section Name
Section A
Table
Add
Assigned Table:
10
11
12
13
14
15
Remove
Printers for this section:
Printer Type
Printer Name
Bar
Upstairs Bar Printer
Receipt
Gold Room
Hotside
Kitchen Hotside Printer
Coldside
Kitchen Coldside Printer
Grill
Kitchen Grill Printer
Change Printer
OK
About
Shift has ended.
Exit

FIG.27

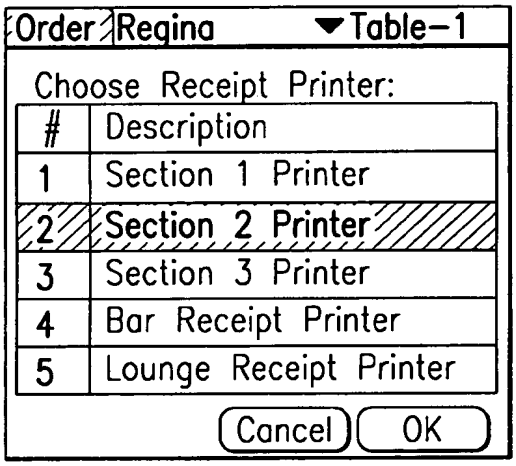
Order
Regina
Table-1
Choose Receipt Printer:
#
Description
1
Section 1 Printer
2
Section 2 Printer
3
Section 3 Printer
4
Bar Receipt Printer
5
Lounge Receipt Printer
Cancel
OK

FIG.28

Grill Printer

```
Server: Melvin J  Table: 1
Received:
10/25/2003 1:57AM

2 Porterhouse (Seats 1, 3)
      Seat 1: rare
      Seat 2: med rare

      ** with Hot-Side,Cold-Side **
```

FIG.29a

Hot-Side Printer

```
Server: Melvin J  Table: 1
Received:
10/25/2003 1:57AM

1 Chicken Pasta (Seat 2)

2 Vegetables (Seat 1,3)

1 Potato (Seat 1)

1 Rice (Seat 3)

        ** with Grill,Cold-Side **
```

FIG.29b

Cold-Side Printer

```
Server: Melvin J  Table: 1
Received:
10/25/2003 1:57AM

1 Chic Caesar (Seat 4)

        ** with Grill,Hot-Side **
```

FIG.29c